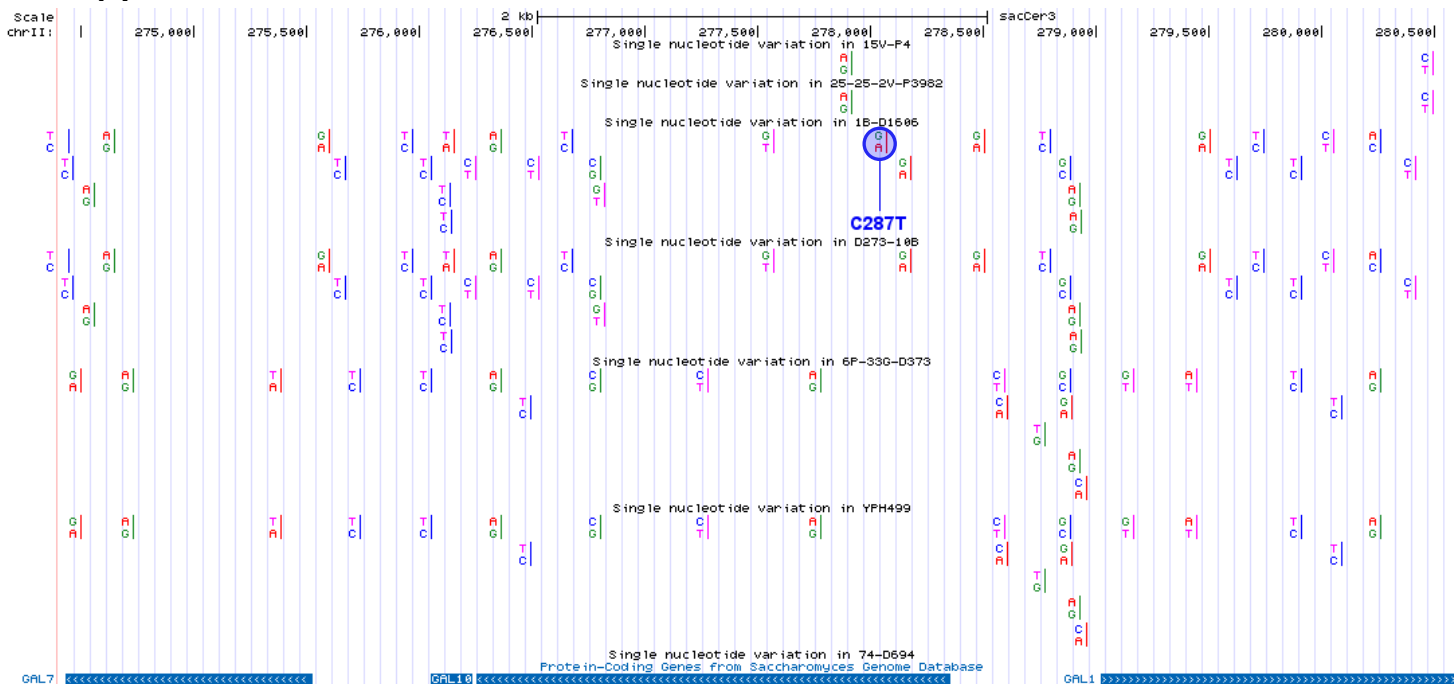
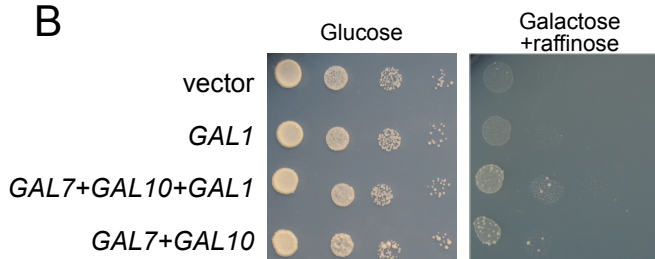


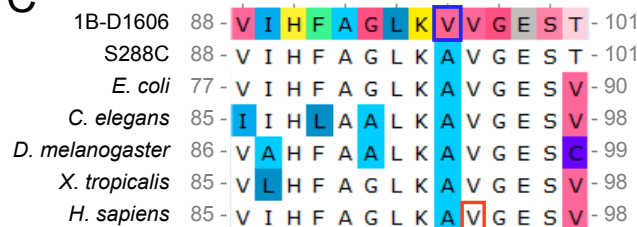
A



B



C



S8 Fig

**GAL10<sup>C287T</sup> mutation in the 1B-D1606 strain may be responsible for the Gal- phenotype**

(A) SNVs in the *GAL* locus compared to S288C. Upper character, reference nucleotide; lower character, variant nucleotide. Nucleotides of the Watson strand are indicated. C287T substitution in *GAL10* of 1B is highlighted in blue circle.

(B) The complete *GAL* locus or its *GAL10*-containing fragment but not *GAL1* alone compensates for 1B inability to grow on galactose-containing medium. 1B was transformed with multicopy plasmids containing the complete *GAL* locus (*GAL7*+*GAL10*+*GAL1*) or its fragments containing either only *GAL1* or *GAL7*+*GAL10*. Shown are series of 10-fold dilutions spotted on synthetic media lacking leucine with glucose or galactose/raffinose as a carbon source. Vector, YEp351.

(C) Alignment of conservative part of UDP-galactose-4-epimerase homologs (*Gal10* from *S. cerevisiae* S288C and 1B strains and *GalE* proteins from other species). In blue frame, Ala96Val substitution in 1B. In red frame, 94Val in human *GALE*.